

Notice of Allowability

Application No.

09/878,784

Examiner

Chat C. Do

Applicant(s)

PELTON ET AL.

Art Unit

2124

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 6/11/01; 10/01/01; 1/15/02; 12/23/02; 01/09/03; 04/19/04.
2. ☒ The allowed claim(s) is/are 1-23.
3. ☒ The drawings filed on 11 June 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 2-5
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

2.

The application has been amended as follows:

In Figure 1, the label "Figure" should replace with "Figure 1" for complying with the rule.

In Brief Description of the Drawing and Appendices section, the word "Figure" in line 30 page 4 should replace with "Figure 1".

In Background of Invention section, the phrase "U.S. Application 09/560221)" in page 4 line 9 should replace with "U.S. Patent No. 6,735,610".

Throughout specification, the word "Appendix" or "Appendices" should replace with the word "Table" or "Tables" respectively in the following page(s) and line(s) below:

Page 4, line 29;

Page 5, lines 3, 6, 9, 12, 15, 17, 19, 23, 26, and 29;

Page 6, lines 1 and 4;

Page 11, line 2;

Page 13, line 29;

Page 14, line 20;

Page 17, lines 14, 21, 23, 25-30;

Page 18, lines 1, 3, 6-7, 9-10, 12-13, 19-20;

Page 19, line 28;

Page 21, line 1;

Page 24, line 1;

Page 27, line 1;

Page 29, line 1;

Page 30, line 1;

Page 31, line 1;

Page 35, line 1;

Page 38, line 1;

Page 39, line 1;

Page 40, line 1; and

Page 41, line 1.

In table 11 pages 41-44, the words "TABLE 1" and "TABLE 2" in line 2 should replace with "TABLE 11A" and "TABLE 11B" respectively.

EXAMINER'S STATEMENT OF REASONS FOR ALLOWANCE

3. Claims 1-23 are allowed.
4. The following is an examiner's statement of reasons for allowance:

The prior art of records fails to disclose or render obvious a method, an apparatus, and a program of generating a second set of equations with reduced numbers of computations from a first set of general equations by assigning a first set of tokens to each of an unique plurality of functions thereby permitting each general equation to be defined with their associated tokens; evaluating each of the general equations and grouping the samples having the same associated token together to form a new separated group; assign a new unique set of tokens to a plurality of unique combination of the samples; and generating the second set of equations based on at least the first and second set of tokens as cited likewise in each independent claims 1, 8, 13, 18, and 21-22.

The closest found prior art is White (U.S. 5,233,551). White discloses a method of reducing computation in Fast Fourier Transform by re-arranging samples due to the periodicity of the function property. However, White fails to disclose a method comprising steps of assigning tokens to each plurality of function, evaluating the function, grouping the same associated token; and assigning a second set of tokens to the combination of the sample as cited above.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

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fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chat C. Do whose telephone number is (703) 305-5655. The examiner can normally be reached on M => F from 7:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chaki Kakali can be reached on (703) 305-9662. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chat C. Do
Examiner
Art Unit 2124

June 25, 2004


KAKALI CHAKI
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100

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